



FortiAP S422E

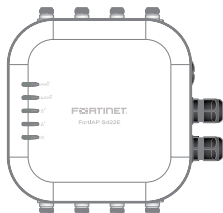
Information



January 5, 2018

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Box Includes



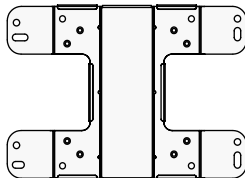
FortiAP S422E



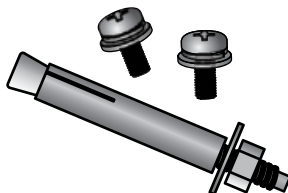
QuickStart Guide



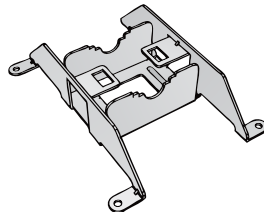
Information Supplement



Wall Mount Bracket

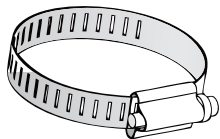


Mounting Screws (8) & Bolts (4)

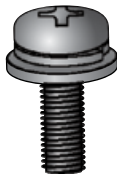


Pole Mount Bracket

Box Includes



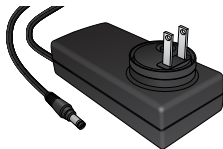
Pole Mount Strap



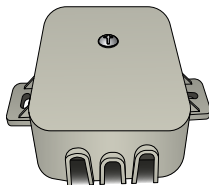
Grounding Screw



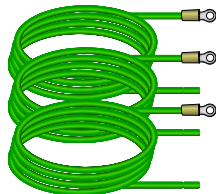
PoE Injector



Power Adapter

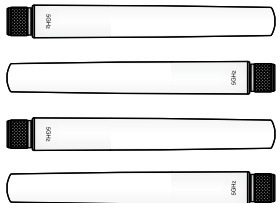


Surge Protector

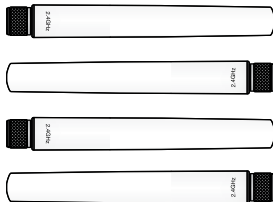


3 Grounding Cables

Box Includes



5 GHz Antenna (4)



2.4 GHz Antenna (4)

Installation

IMPORTANT NOTE: The device must be professionally installed and must use the supplied antennas.

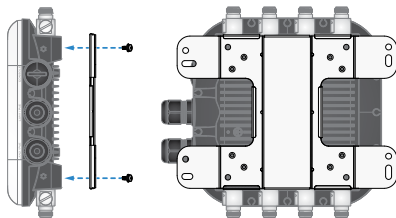
The unit is designed for outdoor use and may be attached to either a [pole](#) or [wall](#). A waterproof connector is supplied to ensure a watertight seal for connecting the Ethernet cable to the device.

Note: The device can be mounted either outdoors or indoors. The included [PoE injector](#) and [surge protector](#) must be mounted indoors, as they are not weatherproof.

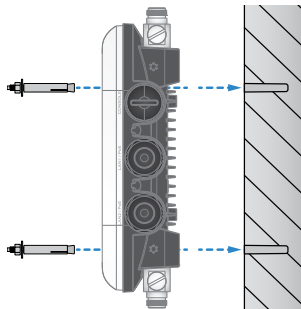
To mount the device on a wall

1. Using the [wall-mount base](#) as a template, mark the location of the [mounting bolt](#) holes on a flat wall surface.
2. [Drill](#) the mounting holes in the marked locations.
3. Fasten the [wall-mount base](#) securely to the back of the unit using the provided [mounting screws](#).

4. Attach the unit and base assembly to the wall using the provided [mounting bolts](#).

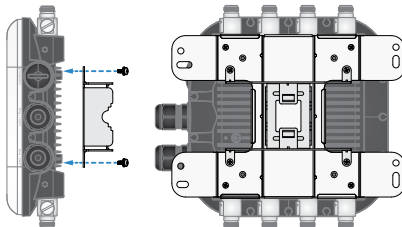
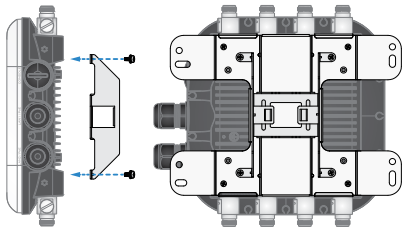


5. Securely tighten the mounting bolts.

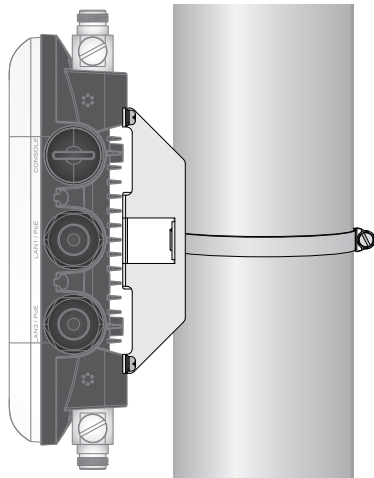


To mount the FortiAP unit on a pole

1. Fasten the [wall-mount base](#) securely to the back of the unit using the provided [mounting screws](#).
2. Attach the [pole-mount bracket](#) to the [wall-mount base](#) using with the provided [screws](#).
The pole-mount bracket can be attached either [vertically](#) or [horizontally](#), as required.



3. Loop the provided **pole strap** through the slots on the pole-mount bracket and then around the pole.
4. Tighten the **strap** with an appropriate screw driver and ensure that the device is firmly in place.

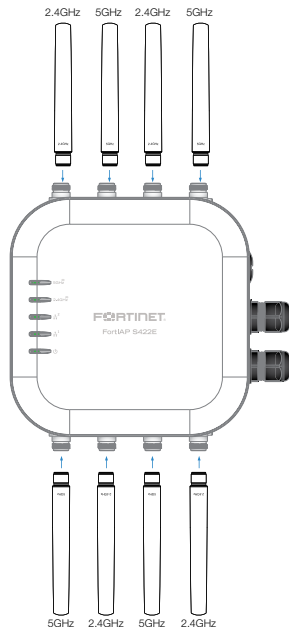


Antennas

The FortiAP S422E unit provides dual concurrent radio signals. Use the 2.4 GHz antennas to access [Radio 1](#) (802.11 b/g/n at 600 Mbps) signals, and the 5 GHz antennas to access [Radio 2](#) (802.11 a/n/c at 1733 Mbps) signals. To use both radio frequencies concurrently, use all eight [WiFi antennas](#).

To Install the WiFi antennas

1. Insert the [antenna base](#) firmly into the appropriate [antenna mount](#).
2. Securely hand tighten the [fastening collar](#).
3. Repeat for the remaining antennas.



Connections

Adequate grounding must be provided to the FortiAP unit, the PoE injector, and the surge protector; [grounding lugs](#) and [cables](#) are provided for this purpose. Consult a [certified electrician](#) to ensure that all grounding and cabling is installed in compliance with the local electrical code.

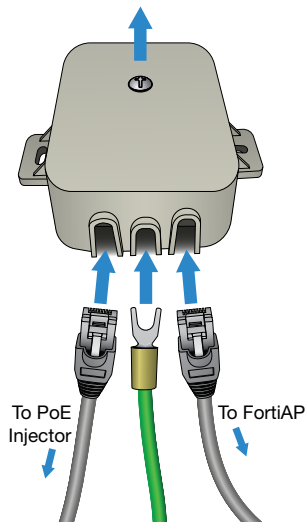
Use an [exterior-grade](#) or [direct burial](#) CAT5 Ethernet cable for connecting the outdoor unit to the surge protector. Use the supplied weatherproof connector to ensure a tight seal at the [PoE port](#) on the unit.

Note: The [PoE injector](#) and [surge protector](#) units are not weatherproof and must be mounted indoors. They should be mounted as close together as possible.

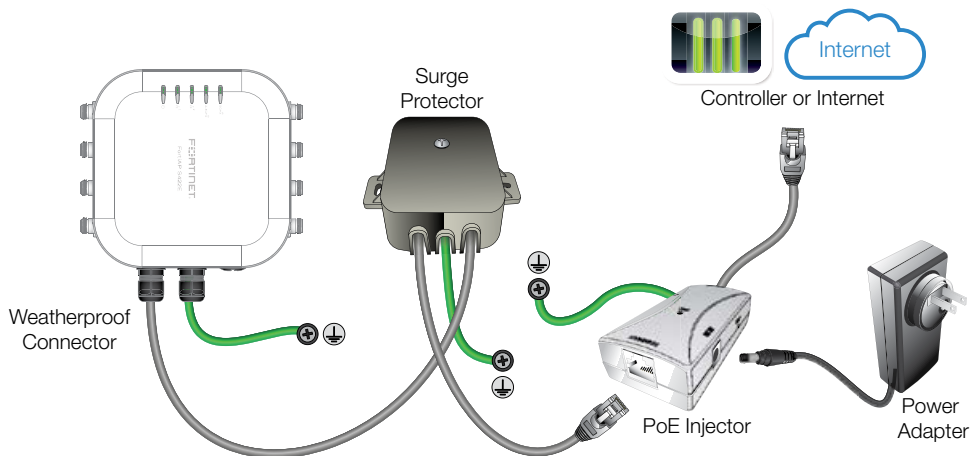
Caution: Do [not](#) connect the [PoE injector](#) to a PoE enabled [Ethernet port](#).

To wire the surge protector

1. Remove the **cover** of the surge protector using an appropriate **screwdriver**.
2. Connect the **ground wire** with the spade lug connector to the grounding post between the two Ethernet connectors.
3. Connect the straight-through Ethernet cable that will connect to the **FortiAP unit** to the Ethernet port on the **right side** of the surge protector.
4. Connect the straight-through Ethernet cable that will connect to the **PoE injector** the Ethernet port on the **left side** of the surge protector.
5. Ensure that the cables comfortably pass through the provided slots on the front of the surge protector.
6. Replace the **cover** onto the surge protector using an appropriate **screwdriver**.

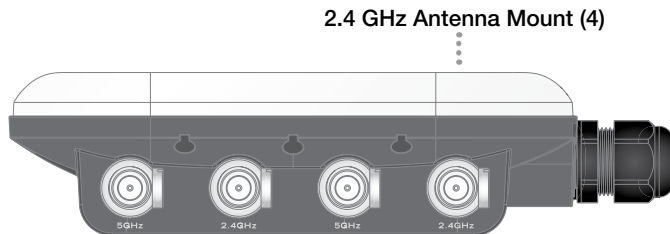


To Connect the FortiAP unit



1. Connect grounding cables to the [grounding lugs](#) on both the FortiAP unit (bottom middle of unit), using the provided grounding screw, and the [PoE injector](#), then connect the other ends of the cables to appropriate ground connections.
2. Connect the [surge protector's](#) grounding cable to an appropriate ground connection.
3. Connect the region-specific [AC plug adapter](#) to the [AC power adapter](#) by inserting the round disk into the adapter and rotating clockwise until you hear the disk lock in place.
4. Insert the DC plug of the [power adapter](#) into the [DC IN port](#) on the PoE injector, then plug the AC adapter into an appropriate power outlet. The [Power LED](#) will light up.
5. Connect one end of a cross-over Ethernet cable to the [Network port](#) on the [PoE injector](#). Connect the other end to the FortiGate [controller](#) or an [Internet connection](#). Do [not](#) connect the [PoE injector](#) to a PoE enabled Ethernet port.
6. Connect the weatherproof, straight-through Ethernet cable on the [right side](#) of the [surge protector](#) to one of the [PoE ports](#) on the bottom of the FortiAP unit.
7. Connect the straight-through Ethernet cable on the [left side](#) of the [surge protector](#) into the [AP/Bridge port](#) on the [PoE injector](#).

Device Guide



2.4 GHz Antenna Mount (4)

5 GHz Antenna Mount (4)

Ground Lug

Grounding cable connection



Network Port (RJ-45)

Gigabit Ethernet port

DC In

Power adapter connection

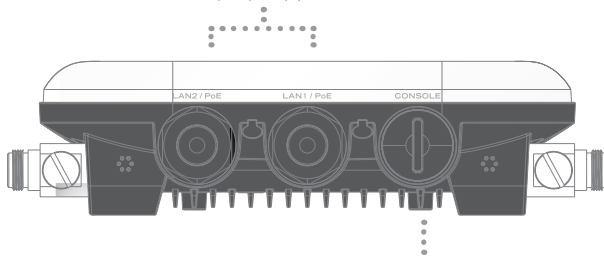
100-240V AC, 50-60Hz, 1.5A max

AP/Bridge Port (RJ-45)

48V DC PoE output.

Ethernet Port (RJ-45)

Gigabit Ethernet port with Power over Ethernet (PoE)
Powered Device (PD) support



Console

Optional management computer connection
Provides access to the Command Line Interface (CLI)

Radio 2 – 5 GHz

- Green: Radio is enabled
- ◉ Flashing Green: Transmitting & receiving at 5 GHz
- Off: Radio disabled or off

Radio 1 – 2.4 GHz

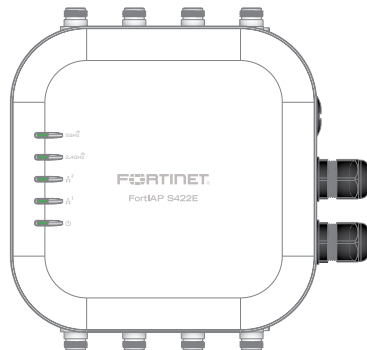
- Green: Radio is enabled
- ◉ Flashing Green: Transmitting & receiving at 2.4 GHz
- Off: Radio disabled or off

LAN 1 & 2

- Green: Connected at 1 Gbps
- ◉ Flashing Amber: Transmitting 100 Mbps
- ◉ Flashing Green: Transmitting & receiving data 1000 Mbps
- Off: No link established

Power

- Green: Power on & ready
- Amber: Power Reserve
- Off: No power



Cautions and Warnings

Environmental specifications

Ambient operating temperature: -30~60°C.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Warning: Equipment intended for installation in Restricted Access Location.

Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Caution: This equipment is to be used in a Network Environment 0 per IEC/EN 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC/EN 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied 48-57 Vdc from PoE source.

Le produit doit être alimenté par à de 48-57 Vdc (PoE).

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit a une borne de mise à la terre séparé sur le dos de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 14 AWG et la connexion doit être installé par un personnel qualifié.

The connecting cable between the outdoor equipment and the indoor ITE devices should comply with Class 3 wiring methods as listed in NEC, Table 725.154(G) for Class 3 Cable Substitutions.

Le câble connectant l'équipement extérieur et ceux d'intérieur de type ITE doit être conforme avec les méthodes de câblage de classe 3 tel que listé dans le standard NEC, Table 725.154(G) pour les câbles de substitutions de classe 3.

PoE input cable type should be CL3, CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR." and "water resistant" or "W".

Le type de câble PoE d'entrée doit être CL3, CL3P, CL3R, CL3X marqué "SUNLIGHT RESISTANT". "SUN RES." Ou «SR.» et "waterproof" ou "W".

If further assistance is needed with purchasing a power source and POE input cable, please contact Fortinet, Inc.

Si vous avez besoin de plus d'aide à l'achat de l'alimentation et le fil d'entrée PoE, s'il vous plaît communiquer avec Fortinet, Inc.

The Console port is not intended to be connected to the computer after the outdoor installation is completed.

La porte Console n'est pas destinée à être raccordée à l'ordinateur après l'installation extérieure faite.

This equipment is to be connected only to PoE networks (LPS) and maybe installed outdoors except the Surge Protector, the PoE Injector and its external LPS Power Supply which are intended for indoor installation only.

Ce produit doit être connecté uniquement aux réseaux POE et peut être installé à l'extérieur sauf le protecteur de surtension, l'injecteur PoE et son alimentation LPS externe qui sont destinés à une installation intérieure seulement.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 33cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 37cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 37cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725–5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725–5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Caution: The device for the band 5150–5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif de la bande 5150–5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250–5350 MHz et 5650–5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

This device has been designed to operate with an antenna having a maximum gain of 4.5 dBi for 2.4 GHz and 6.3 dBi for 5 GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 4.5 dBi pour 2,4 GHz et 6.3 dBi pour 5 GHz. Une antenne ayant un gain supérieur est strictement interdites par la réglementation d'ISED. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'ISED, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication réussie.

This radio transmitter (7280B- 28166033) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

External antennas

Qty	MPN	Antenna Type	Antenna Connector	Gain (dBi)	
				2.4 GHz	5 GHz
4	Senao DA2105	Dipole	N-plug	4.5	—
4	Senao DA2107	Dipole	N-plug	—	6.3

Le présent émetteur radio (7280B- 28166033) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

Professional Installation Instruction

1. Installation personnel

This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 37cm from nearby person in normal operation condition to meet Regulatory RF exposure

requirement. The installation applies to both indoor and outdoor location.

3. External antenna(s)

Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/ISED limit and is prohibited.

4. Warning

Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation

Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.

2. Emplacement d'installation

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 37cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.

3. Antenne externe(s)

Utiliser uniquement l'antenne(s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/ISED, ce qui est interdit.

4. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2472 MHz less than 20 dBm
5180-5240 MHz less than 23 dBm
5260-5320 MHz less than 23 dBm *
5500-5700 MHz less than 30 dBm *

Note: * Only with DFS bands certification.

Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including, combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end-customers directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български

Този продукт е в съответствие с Директива 2014/53/EC.

Česky

Tento produkt je v souladu se směrnicí 2014/53/EU.

Dansk

Denne produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti

See toode vastab direktiivile 2014/53/EL.

English

This product is in compliance with Directive 2014/53/EU.

Español

Este producto cumple con la Directiva 2014/53/UE.

Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français

Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/UE.

Latviski

Šis produkts atbilst direktīvu 2014/53/EU.

Lietuvių

Šis gaminyas atitinka direktyvą 2014/53/ES.

Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Denne produktet er i samsvar med direktiv 2014/53/EU.

Polski

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Português

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Rumunski

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Slovensky

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Slovensko

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